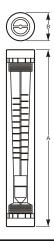
INSTALLATION INSTRUCTIONS 6B41, 6B42 and 6B43



SPECIFICATIONS

Meter Body: Acrylic, clear Floats: #316 Stainless Steel or Hastelloy C-276 Adapters: Polypropylene with aluminum stress rings O-Rings: Viton Scale: Permanent Silkscreen Max. Pressure: 150 PSIG / 10.3 BAR (see graph) Max. Temperature: 150°F / 65.6°C (see graph) Accuracy: ± 5% Full Scale

Model Number	A In. (mm)	B In. (mm)
6B41	8-3/16" (208.0mm)	1-1/4" (31.75mm)
6B42	11" (279.4mm)	1-3/4" (44.45mm)



The 6B41, 6B42 and 6B43 Series In-Line Flow Meter

- · Designed to be easy to install
- Please read the Instruction Guideline on the next page before installing your flow meter
- This flow meter is an instrument, special care should be taken when handling and installing.

Inspection of the Flow Meter and Compatibility

- Carefully inspect the meter for any damage that may have occurred during shipping.
- Remove the plastic tubing that has been inserted during packaging for shipping reasons.
- Make sure your pressure, temperature, fluid and other requirements are compatible with the meter before installation.
- The maximum temperature capability decreases as the pressure increases. The max PSI decreases as the temperature increases. See the chart on the following page.
- Although the meter may be suitable for other chemicals, Dakota meters are tested with water and air only. If you are unsure of the meters compatibility with your chemical, please consult the factory.
- Dakota warranties the flow meter for use with air and water only.



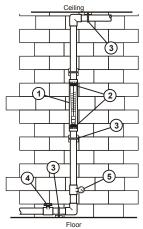
20 Corporate Drive Orangeburg, NY 10962

Installation Guideline

Please use the following steps to guide you through the installation.

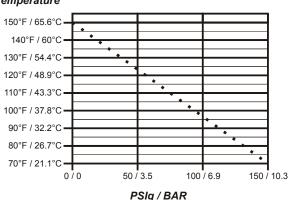


- 1. The flow meter must be installed in an exact vertical plane to ensure accuracy.
- 2. Use PTFE tape (or similar) on all pipe threads. Acrylic and other exotic plastics cannot tolerate PVC Glue and/or pipe dope. Even fumes can cause crazing. If you are installing your flow meter to a glued pipe installation, install the flow meter after all glued fittings are dried and lines are purged of all fumes. Never hold the meter with pliers or like tools. DO NOT **OVER-TIGHTEN!**



6B41, 6B42 and 6B43 Meter Installation

- 3. Wall, floor and ceiling mounts are to be carefully aligned and sturdy supports are recommended as needed. This is to maintain pipe alignment and to prevent vibration.
- Valves Avoid a system that will impose a sudden burst of flow to the meter. Such a burst will cause the float to impact the float stop with destructive force which may damage the flow meter. Solenoid valves, or other quick opening valves cannot be used unless meter is protected against sudden bursts of flow. (If necessary a surge chamber should be installed. This will also be useful in high pressure start-up situations) The flow meter is not warrantied against this type of damage.
- 5. Maximum working pressure not to exceed recommended psi at fluid temperature (see Temperature Vs. Pressure chart).



Temperature vs. Pressure





20 Corporate Drive Orangeburg, NY 10962 Phone: (845) 770-3200 Fax: (845) 770-3210 Web Site: www.dakotainstruments.com E-mail: info@dakotainstruments.com

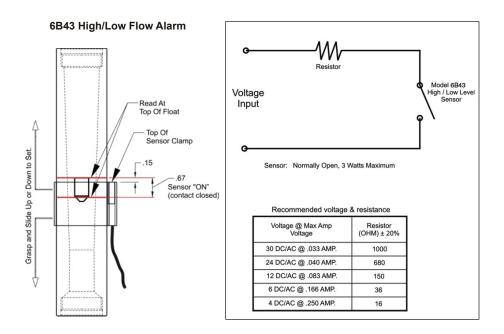
Pressure and Temperature

Pressure and temperature limits are inversely proportional. At the maximum suggested pressure the temperature should approach 70°F / 21.1°C; at the maximum suggested temperature the pressure should approach zero psi. We cannot guarantee our flow meters will not be damaged either at or below the suggested limits simply because of many factors which influence meter integrity; stress resulting from meter misalignment, damage due to excessive vibration and/or deterioration caused by contact with certain chemicals as well as direct sunlight. These situations and others tend to reduce the strength of the materials from which the meters are manufactured.

Application Note

Flow meters are tested and calibrated for water or air only.

Although meters may be suitable for other chemicals, Dakota cannot guarantee their suitability. It is the responsibility of the user to determine the suitability of the flow meter in their application.

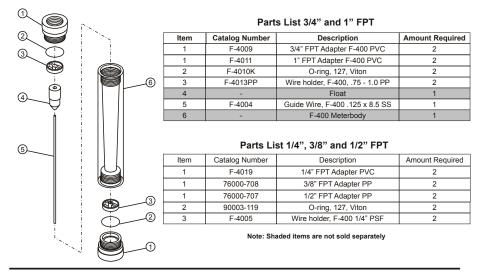


Note: These units have an aluminum sensor bezel clamp with an enclosed reed switch (normally open-1 watt max.) The Clamp can be easily moved up or down the scale on the meter body. 15' of 2-wire cable is included.



6B41, 6B42 and 6B43 1/4", 3/8" and 1/2" FPT

Exploded View and Parts List



Maintenance

The "Exploded View" drawing illustrates assembly of the 6B41, 6B42 and 6B43 series meter. If your flow meter needs to be cleaned refer to this drawing when reassembling the unit. The tapered tube may be cleaned with a soft bottle brush. Use a MILD soap and water solution for cleaning purposes. Hard water deposits can be removed with a 5% acetic acid solution (vinegar). Note the floats "up" position.

DAKOTA INSTRUMENTS LIMITED WARRANTY

FLOW METERS are warranted to be free of defects in material and workmanship for up to 12 months from the date of factory shipment. Warranty coverage is limited to repair or replacement of the defective flow meter only. Dakota Instruments does not assume responsibility for any other damage that may occur.

This warranty does not cover damage to the Flow meter that results from misuse or alterations, nor damage that occurs as a result of: meter misalignment, improper installation, over tightening, use of non-recommended chemicals, use of non-recommended adhesives or pipe dopes, excessive heat or pressure, or allowing the meter to support the weight of related piping. Flow meters are tested and calibrated with water and air only. Although meters may be suitable for other chemicals, Dakota Instruments cannot guarantee their suitability.

Flow meters are repaired at the factory only. Call or write to receive a Return Authorization Number, carefully pack the flow meter to be returned, including a brief description of the problem. Note the RA number on the outside of the carton.

Prepay all shipping costs. Dakota does not accept COD Shipments. Damage that occurs during shipping is the responsibility of the sender.



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